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ATTORNEY DOCKET NO. 21108.0014U2  
PATENT

GP1846  
#9/18  
09-19-02

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of	:	
Chang	:	Group Art Unit: 1646
Serial No. 09/711,585	:	
Confirmation No. 7198	:	Examiner: Basi, Nirmal Singh
Filed: November 13, 2000	:	
For: MUTUAL SUPPRESSION BETWEEN SEX :	:	
HORMONE RECEPTORS AND OTHER :	:	
NUCLEAR RECEPTORS	:	

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

NEEDLE & ROSENBERG, P.C.  
The Candler Building  
127 Peachtree Street, N.E.  
Atlanta, Georgia 30303-1811

August 14, 2002

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying form PTO 1449 is a listing of documents known to the applicants and/or their attorneys. Copies of these documents are enclosed.

Consideration of the cited documents and making the same of record in the prosecution of the above-noted application are respectfully requested.

ATTORNEY DOCKET NO. 21108.0014U2  
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Applicants believe that this Information Disclosure Statement is being filed in accordance with 37 C.F.R. § 1.97(b)(1) and (3), i.e., within three months of the filing date of the application or before the mailing date of the first Office Action on the merits. Therefore, no fee is believed to be due. However, the Commissioner is hereby authorized to charge any fees which may be required, or to credit any overpayment, to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

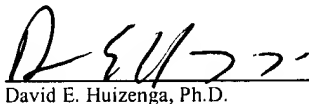


David E. Huizenga, Ph.D.  
Registration No. 49,026

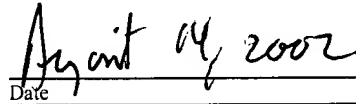
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CERTIFICATE OF MAILING

I hereby certify that this correspondence and anything indicated as being attached or enclosed is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on the date shown below.



David E. Huizenga, Ph.D.



Date



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SERIAL NO. 09/711,585

Page 1 of 3

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 7-80) PATENT AND TRADEMARK OFFICE  LIST OF CITATIONS CITED BY APPLICANT (Use several sheets if necessary)	ATTORNEY DOCKET NO.: 21108.0014U2	SERIAL NO. 09/711,585
	APPLICANT: Chang	
	FILING DATE: November 13, 2000	GROUP: 1646

U.S. PATENT DOCUMENTS							
EXAMINER INITIALS		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	A1	Beato, Gene Regulation by Steroid Hormones. <i>Cell</i> 56:335-344 (1989)
	A2	Beato, Steroid Hormone Receptors: Many Actors in Search of a Plot. <i>Cell</i> 83:851-857 (1995)
	A3	Breidbart et al. Hormonal Regulation of Hepatitis B Virus Gene Expression: Influence of Androgen Receptor. <i>Pediatric Res.</i> 34(3):300-302 (1993)
	A4	Cavaillès et al. Nuclear factor RIP140 modulates transcriptional activation by the estrogen receptor. <i>EMBO J.</i> 14(15):3741-3715 (1995)
	A5	Chang et al. Androgen Receptor: An Overview. <i>Gene Expression</i> 5(2):97-125 (1995)
	A6	Chang et al. Human and rat TR4 orphan receptors specify a subclass of the steroid receptor superfamily. <i>Proc Natl. Acad. Sci. USA.</i> 91:6040-6044 (1994)
	A7	Forman et al. Unique Response Pathways Are Established by Allosteric Interactions among Nuclear Hormone Receptors. <i>Cell</i> 81:541-550 (1995)
	A8	Gelman et al. p300 Interacts with the N – and C-terminal Part of PPAR $\gamma$ 2 in a Ligand-independent and -dependent Manner, Respectively. <i>J. Biol. Chem.</i> 274(12):7681-7688 (1999)



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SERIAL NO. 09/711,585

Page 2 of 3

A9	Kliwer et al. Retinoid X receptor interacts with nuclear receptors in retinoic acid, thyroid hormone and vitamin D <sub>3</sub> signalling. <i>Nature</i> 355:446-449 (1992)
A10	Kliwer et al. Convergence of 9- <i>cis</i> retinoic acid and peroxisome proliferator signalling pathways through heterodimer formation of their receptors. <i>Nature</i> 358:771-774 (1992)
A11	Kurokawa et al. Regulation of retinoid signalling by receptor polarity and allosteric control of ligand binding. <i>Nature</i> 371:528-531 (1994)
A12	Lee and Chang. Identification of Human TR2 Orphan Receptor Response Element in the Transcriptional Initiation Site of the Simian Virus 40 Major Late Promoter. <i>J. Biol. Chem.</i> 270(10):5434-5440 (1995)
A13	Lee et al. Differential Regulation of Direct Repeat 3 Vitamin D <sub>3</sub> and Direct Repeat 4 Thyroid Hormone Signaling Pathways by the Human TR4 Orphan Receptor. <i>J. Biol. Chem.</i> 274(23):16198-16205 (1999)
A14	Lee et al. Negative Feedback Control of the Retinoid-Retinoic Acid/Retinoid X Receptor Pathway by the Human TR4 orphan Receptor, a Member of the Steroid Receptor Superfamily. <i>J. Biol. Chem.</i> 273(22):13437-13443 (1998)
A15	Lee et al. Suppression of the Human Erythropoietin Gene Expression by the TR2 Orphan Receptor, a Member of the Steroid Receptor Superfamily. <i>J. Biol. Chem.</i> 271(17):10405-10412 (1996)
A16	Lee et al. Suppression of Gene Expression on the Simian Virus 40 Major Late Promoter by Human TR4 Orphan Receptor. <i>J. Biol. Chem.</i> 270(50):30129-30135 (1995)
A17	Lee et al. Identification of Direct Repeat 4 as a Positive Regulatory element for the Human TR4 Orphan Receptor. <i>J. Biol. Chem.</i> 272(18):12215-12220 (1997)
A18	Lin et al. Multiple Functions of the TR2-11 Orphan Receptor in Modulating Activation of Two Key Cis-acting Elements Involved in the Retinoic Acid Signal Transduction System. <i>J. Biol. Chem.</i> 270(50):30121-30128 (1995)
A19	Mangelsdorf et al. The Nuclear Receptor Superfamily: The Second Decade. <i>Cell</i> 83:835-839 (1995)
A20	Mangelsdorf et al. The RXR Heterodimers and Orphan Receptors. <i>Cell</i> 83:841-850 (1995)
A21	Misrahi et al. Complete Amino Acid Sequence of the Human Progesterone Receptor Deduced From Cloned cDNA. <i>Biochem. Biophys. Res. Commun.</i> 143:740-748 (1987)
A22	Mizokami and Chang. Induction of Translation by the 5'-Untranslated Region of Human Androgen Receptor mRNA. <i>J. Biol. Chem.</i> 269(41):25655-25659 (1994)
A23	Schulman et al. The phantom ligand effect: allosteric control of transcription by the retinoid X receptor. <i>Genes Dev.</i> 11:299-308 (1997)
A24	Seol et al. An Orphan Nuclear Hormone Receptor that Lacks a DNA Binding Domain and Heterodimerizes with Other Receptors. <i>Science</i> 272:1336-1339 (1996)
A25	Simental et al. Transcriptional Activation and Nuclear Targeting Signals of the Human Androgen Receptor. <i>J. Biol. Chem.</i> 266(1):510-518 (1991)
A26	Wiebel and Gustafsson. Heterodimeric Interaction between Retinoid X Receptor $\alpha$ and Orphan Nuclear Receptor OR1 Reveals Dimerization-Induced Activation as a Novel Mechanism of Nuclear Receptor Activation. <i>Mol. Cell. Biol.</i> 17(7):3977-3986 (1997)
A27	Yang et al. Multiple protein domains determine the cell type-specific nuclear distribution of the catalytic subunit required for apolipoprotein B mRNA editing. <i>Proc. Natl. Acad. Sci. USA</i> 94:13075-13080 (1997)
A28	Yeh and Chang. Cloning and characterization of a specific coactivator, ARA <sub>70</sub> , for the androgen receptor in human prostate cells. <i>Proc Natl. Acad. Sci. USA</i> 93:5517-5521 (1996)
A29	Young et al. Induction of the Intronic Enhancer of the Human Ciliary Neurotrophic Factor Receptor (CNTFR $\alpha$ ) Gene by the TR4 Orphan Receptor. <i>J. Biol. Chem.</i> 272(5):3109-3116 (1997)
A30	Young et al. A Bidirectional Regulation between the TR2/TR4 Orphan Receptors (TR2/TR4) and the Ciliary Neurotrophic Factor (CNTF) Signaling Pathway. <i>J. Biol. Chem.</i> 273(33):20877-20885 (1998)



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Page 3 of 3

	A31	Yu et al. RXR $\beta$ : A Coregulator that Enhances Binding of Retinoic Acid, Thyroid Hormone, and Vitamin D Receptors to Their Cognate Response Elements. <i>Cell</i> 67:1251-1266 (1991)
	A32	Zamir et al. Stoichiometric and steric principles governing repression by nuclear hormone receptors. <i>Genes Dev.</i> 11:835-846 (1997)
	A33	Zhang et al. Retinoid X receptor is an auxiliary protein for thyroid hormone and retinoic acid receptors. <i>Nature</i> 355:441-446 (1992)
EXAMINER:		DATE CONSIDERED:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		